

PATENT COOPERATION TREATY

Jepsen

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

MOTOROLA EUROPEAN INTELLECTUAL
PROPERTY OPERATIONS
Attn. McCormack, Derek J.
Midpoint, Alencon Link,
Basingstoke, Hampshire
RG21 7PL
UNITED KINGDOM

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference CE31066P	Date of mailing (day/month/year) 11/11/2004
International application No. PCT/EP2004/050877	International filing date (day/month/year) 20/05/2004
Applicant MOTOROLA INC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, within **20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ursula Riepert

DOCKETED
EIPD

- 5 JAN 2005

AMW: 11/JAN/05

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CE31066P	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/050877	International filing date (day/month/year) 20/05/2004	(Earliest) Priority Date (day/month/year) 12/07/2003
Applicant MOTOROLA INC		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

COMMUNICATION SYSTEM, COMMUNICATION UNIT AND METHOD OF POWER SAVING THEREIN

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/050877

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	<p>WO 02/056628 A (AGIN PASCAL ; EVOLIUM S A S (FR)) 18 July 2002 (2002-07-18) abstract</p> <p>page 1, line 9 - line 14 page 2, line 10 - line 18 page 5, line 28 - page 6, line 6 page 8, line 1 - line 11 page 10, line 24 - line 27 page 11, line 17 - line 25 page 19, line 1 - line 8 figures 1,4</p> <p>----- -/--</p>	<p>1, 15, 23-26 2-14, 16-18, 20-22, 27-30</p>



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

29 October 2004

Date of mailing of the international search report

11/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rosenauer, H

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/EP2004/050877

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 405 045 B1 (KIM WON-MOO ET AL) 11 June 2002 (2002-06-11) abstract column 1, line 7 - line 14 column 2, line 1 - line 15 column 2, line 24 - line 42 column 3, line 20 - line 36 column 4, line 16 - column 5, line 23 figures 1,2	1,15,26
Y	EP 1 326 463 A (LUCENT TECHNOLOGIES INC) 9 July 2003 (2003-07-09) page 2, line 47 - page 3, line 16 page 6, line 13 - line 45 figures 1,2	2-14, 16-18, 20-22, 27-30
A	EP 1 289 171 A (NTT DOCOMO INC) 5 March 2003 (2003-03-05) column 7, line 17 - column 8, line 39 column 11, line 56 - column 12, line 53 figures 1,4,7	1-30
A	EP 1 283 642 A (ASCOM AG) 12 February 2003 (2003-02-12) abstract column 2, line 25 - line 50 column 3, line 23 - column 4, line 14 column 6, line 19 - line 48 figure 1	1-30

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 31,32

Independent claims 31 and 32 merely contain a reference to the drawings.

Said claims therefore do not meet the requirement following Article 6 PCT taken in combination with Rule 6.3 (b) PCT that any independent claim must contain all the technical features essential to the invention.

Furthermore, according to Rule 6.2 (a) PCT, references to the drawings are allowable only where the reference is absolutely necessary (cf. PCT/GL/ISPE/1 - 5.10). Such is, however, not the case here.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/050877

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 31, 32
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210.
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050877

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02056628	A	18-07-2002	FR 2819658 A1	19-07-2002
			CN 1484932 T	24-03-2004
			EP 1223782 A1	17-07-2002
			EP 1223783 A1	17-07-2002
			WO 02056628 A1	18-07-2002
			WO 02056629 A1	18-07-2002
			JP 2004525550 T	19-08-2004
			JP 2004523159 T	29-07-2004
			US 2004053597 A1	18-03-2004
			US 2004066744 A1	08-04-2004
US 6405045	B1	11-06-2002	KR 209464 B1	15-07-1999
			CN 1184399 A , B	10-06-1998
			JP 10191439 A	21-07-1998
EP 1326463	A	09-07-2003	EP 1326463 A1	09-07-2003
			US 2003128665 A1	10-07-2003
EP 1289171	A	05-03-2003	JP 2003037619 A	07-02-2003
			CN 1399430 A	26-02-2003
			EP 1289171 A2	05-03-2003
			US 2003021288 A1	30-01-2003
EP 1283642	A	12-02-2003	EP 1283642 A1	12-02-2003
			US 2003031136 A1	13-02-2003

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/EP2004/050877

International filing date (day/month/year)
20.05.2004

Priority date (day/month/year)
12.07.2003

International Patent Classification (IPC) or both national classification and IPC
H04Q7/34

Applicant
MOTOROLA INC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☒ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized Officer

Rosenauer, H

Telephone No. +49 89 2399-7231



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2004/050877

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2004/050877

Box No. II Priority

1. ☒ The following document has not been furnished:

- ☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/050877

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- ☐ the entire international application,
- ☒ claims Nos. 31,32

because:

- ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):
- ☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (*specify*):
- ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
- ☒ no international search report has been established for the whole application or for said claims Nos. 31,32
- ☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
 - the written form ☐ has not been furnished
 - ☐ does not comply with the standard
 - the computer readable form ☐ has not been furnished
 - ☐ does not comply with the standard
- ☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
- ☐ See separate sheet for further details

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2004/050877

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	
	No: Claims	1, 10,13-15,23-26,28
Inventive step (IS)	Yes: Claims	
	No: Claims	2-9,11-12,16-22,27,29,20
Industrial applicability (IA)	Yes: Claims	1-30
	No: Claims	

2. Citations and explanations

see separate sheet

Reference is made to the following documents:

D1: WO 02/056628

D2: EP-A-1 326 463

A. Remarks in respect of Item III:

Independent claims 31 and 32 merely contain a reference to the drawings.

Said claims therefore do not meet the requirement following Article 6 PCT taken in combination with Rule 6.3 (b) PCT that any independent claim must contain all the technical features essential to the invention.

Furthermore, according to Rule 6.2 (a) PCT, references to the drawings are allowable only where the reference is absolutely necessary (cf. PCT/GL/ISPE/1 - 5.10). Such is, however, **not** the case here.

B. Citations and explanations in respect of Item V:

- 1 **Document D1** (see in particular the abstract; page 1, lines 9 to 14; page 2, lines 10 to 18; page 5, line 28 to page 6, line 6; page 8, lines 1 to 11; page 10, lines 24 to 27; page 11, lines 17 to 25; page 19, lines 1 to 8; figures 1, 4), which is considered to represent the most relevant state of the art, discloses, according to **all** the features of **claim 1** (applying the terminology of claim 1 and references to D1), a communication system comprising a system management function for managing base-site resources and system throughput of data (see in particular the abstract; "**RNC**" in figure 4), the system management function configured to identify a number of resources (see in particular page 11, lines 20 to 23; "**14**" in figure 4), wherein a throughput identification function is configured to identify one or more bottleneck resources from a sub-set of system resources involved in the system throughput (see in particular page 11, lines 24 to 25; "**15**" in figure 4).

Therefore, the subject-matter of claim 1 is not new, Article 33 (2) PCT.

- 2 The same considerations as made above in paragraph 1 in respect of claim 1 are also valid for **independent claims 15, 23, 24, 25 and 26**, which contain the

corresponding features of claim 1 in terms of claims relating to a method (claim 15), a 3GPP wireless communication system (claim 23) a radio network controller (claim 24), a storage medium (claim 24) and a radio network controller (claim 26).

The subject-matter of said claims is not new, Article 33 (2) PCT.

- 3 It should furthermore be noted that even if the Applicant intended to argue novelty of claims 1, 15 and 23 to 26, based on a slightly different interpretation of the features of claim 1 and those disclosed in document **D1**, the subject-matter of said claims would **not involve an inventive step**, Article 33 (3) PCT, having regard to the disclosure of document D1 and the normal knowledge of a person skilled in the art of managing resources in communication systems and related processing power consumption methods. In this respect it should be noted that document **D2** (see in particular the abstract; column 1, lines 7 to 14; column 2, lines 1 to 15; column 2, lines 24 to 42; column 3, lines 20 to 36; column 4, line 16 to column 5, line 23; figures 1, 2) describes a similar communication system and method for performing resource management.
- 4 Furthermore, **dependent claims 2 to 14, 16 to 22 and 27 to 30** do **not** contain any additional features which, in combination with the features of any claim to which they refer, involve an inventive step for the reason that the subject-matter of said claims **either is in principle** derivable from the disclosure of document **D1** (for claims **10, 21 and 28**: see page 1, lines 19 to 26; for claim **13**: see page 1, lines 9 to 14 and page 11, lines 17 to 19; for claim **14**: see page 1, lines 15 to 22), from a similar application described in document D2 (for claims **2, 3 and 27**: see page 3, lines 13 to 16; for claim **4**: see page 6, lines 18 to 19; for claims **6 and 18**: see page 4, lines 53 to 56; for claims **7 and 20**: see page 3, lines 13 to 16; for claim **9**: see page 6, lines 25 to 26), or represents minor design details which are based on the general design competence of the person skilled in the field of communication systems and related resource management procedures.

Dependent claims 2 to 14, 16 to 22 and 27 to 30 therefore **do not** meet the requirements of Article 33 (3) PCT.

B. Further remarks:

1 The claims do not meet the requirements of Article 6 PCT for the following reasons:

1.1 The application contains to independent claims (**Claims 1 and 23**) relating to a system and two independent claims (**Claims 24 and 26**) relating to a radio network controller each having overlapping scope. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

In order to overcome this objection, it would appear appropriate to file an amended set of claims defining the subject-matter in terms of a single independent claim per category followed by dependent claims covering features which are merely optional (Rule 6.4 PCT).

1.2 Independent **claim 1** does not clearly define the matter for which protection is sought due to lack of apparently essential features (Article 6 PCT taken in combination with Rule 6.3 (b) PCT). As essential features have to be regarded all features which are necessary to obtain the desired effect or, differently expressed, which are necessary to solve the technical problem with which the application is concerned.

From the present disclosure, see in particular page 1, lines 6 to 11 and page 4, lines 5 to 23, it is clear that the purpose of the invention is to avoid processing power consumption in a system management function of a communication system and that this object is achieved mainly by providing improved QoS management procedures for bottleneck resources. In other words, according to the invention, the system management function selectively applies one or more quality of service processes to the identified one or more bottleneck resources.

However, with regard to said features, claim 1 as presently on file merely defines a *"system management function having a throughput identification function to identify one or more bottleneck resources"* without any indication as to apply one or more

quality of service processes to the identified bottleneck.

Since claim 1 does not contain all these features which are apparently necessary to achieve the objects of the invention, it does not meet the requirements following from Article 6 PCT taken in combination with Rule 6.3 (b) PCT, that **any independent claim must contain all the technical features essential to the invention.**

For the above reasons, amendments of claim 1 in the interest of clarity is accordingly necessary to explicitly define all technical features essential to the understanding and correct operation of the invention, e.g. by incorporating therein the features of present dependent claim 2.

- 1.3 The terms "**preferably, for example**" used in respective claims 5, 12, 15, 22, 27 and 30 have no limiting character to the related feature, i.e. the feature following such an expression is to be regarded as entirely optional, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT and PCT/GL/ISPE - 5.40).
- 2 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 and D2 is not mentioned in the description, nor are these documents identified therein.
- 3 To meet the requirements of Rule 6.3 (b) PCT, any independent claim should be correctly cast in the **two-part form**, with those features which in combination are part of the nearest prior art (as. e.g. described in the **document D1**) being placed in the preamble.
- 4 The opening part of the description should be brought **into conformity with the** wording of any new or amended independent claim, Rule 5.1 (a) (iii) PCT.
- 5 Reference sign "**221**" on page 9, line 9 should be replaced by "**220**" in order to correspond with figure 2.
- 6 The attention of the Applicant is drawn to the fact that the application may **not be amended in such a way** that it contains subject-matter which **extends beyond the**

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/EP2004/050877

content of the application as filed, Article 34 (2) (b) PCT.

In his letter of reply, the Applicant should **indicate the parts of the originally filed application serving as a basis for subject-matter newly introduced into the claims.**